

## **Amendments to the Claims:**

Cancel claims 1-5

1. ~~(Cancelled) A cosmetic method of treating skin ageing, wherein it comprises the following steps:~~

~~a) connecting an electronic device, able to generate high frequency electric current waves having a distorted sinusoidal wave form by the presence of harmonics, to one or more electrodes of essentially laminar shape;~~  
~~b) applying said one or more electrodes on the skin surface in the area to be treated;~~  
~~c) activating said electronic device in order to transfer said current waves to said one or more electrodes and to maintain said device activated for a predetermined time; d)~~  
~~deactivating said device and removing the electrodes from the contact with the treated area.~~

2. ~~(Cancelled) The method according to claim 1 wherein said sinusoidal wave is distorted by the presence of harmonics from at least the first to the third order.~~

3. ~~(Cancelled) The method according to claim 1 wherein said distorted sinusoidal wave form applied to one or more electrodes has a frequency greater than 2 MHz.~~

4. ~~(Cancelled) The method according to claim 1 wherein the distorted sinusoidal wave applied to one or more electrodes has a frequency of about 4 MHz.~~

5. ~~(Cancelled) The method according to claim 1 wherein the maximum power transmitted to said one or more electrodes is in the range of 40-50 Watts.~~

6. (Currently Amended) The method according to claim ~~4~~ 15 wherein the ratio between the supplied power to said one or more electrodes and the surface of said electrodes is not greater than 0,5 W/cm<sup>2</sup>.

7. (Currently Amended) The method according to claim ~~4~~ 15, wherein said electronic device remains active for a time interval ~~comprised~~ is between 0,5 5 and 5 minutes.

8. (Original) A device carrying out ~~the cosmetic~~ a method for recovering the permeability of cell walls of muscles under the skin of claim 1 wherein it comprises comprising:

— one or more electrodes of essentially laminar shape connected to the electronic device, for application to be applied on the skin by adherence and connected to an electronic device, said device comprising comprising:

a radio frequency circuit;

— a rectifier circuit ~~fed by power grid voltage which supplies~~ for supplying a voltage, to a the radiofrequency circuit; said

— a radiofrequency circuit comprising at least an electronic switch fed by said voltage; a piloting circuit feeding the switch and piloted by a piloting circuit, wherein said radiofrequency circuit produces a distorted sinusoidal output wave of about 4 MHz consists of a current wave of distorted sinusoidal form by the presence of including harmonics of at least the second and third order;

a broadband resonant circuit, said resultant output wave circulating in a the broadband resonant circuit at on the frequency of the a pure wave of said distorted sinusoidal output wave form.

9. (Currently Amended) The device according to claim 8 wherein said electronic switch has capacitance resonant circuit comprises at least the parasitic capacity of said electronic switch and the radio frequency circuit includes a primary transformer having inductance and the resonant circuit includes the capacitance of the switch and the inductance of the radiofrequency-transformer primary circuit which feeds feeding said one or more electrodes.

10. (Currently Amended) The device according to claim 8 including a controller and the wherein said piloting circuit is connected to a the controller circuit comprising a microprocessor feeding said pilot circuit, said microprocessor which interrupts pilot circuit at prefixed intervals the feeding of said piloting circuit, so that the resultant output wave which goes through in the resonant circuit takes the form of a intermittent train of pulses train, each of them consisting in an comprising an amplitude modulated wave.

11. (Currently Amended) The device according to claim 8 including a regulator for modifying the voltage of the piloting circuit and wherein the amplitude of the wave form amplitude appearing at the electrode is variable by means of a said regulator which modifies the voltage of the piloting circuit.

12. (Currently Amended) The device according to claim 8 wherein the amplitude of the wave form amplitude at the electrode is variable by the modification of the rectified ~~direct voltage which feeds~~ feeding said radiofrequency circuit, and the direct voltage being maintained constant by the voltage feeding the piloting circuit of said at least an electronic switch.

13. (Currently Amended) The device according to claim 8 including a regulator for modifying the voltage of the piloting circuit, and wherein the amplitude of the wave form amplitude at the electrode is variable by the modification of the rectified direct voltage which feeds said radiofrequency circuit and by means of a the regulator which modifies the voltage of the piloting circuit.

14. (Currently Amended) The device according to claim 8 wherein said ~~one or more electrodes of essentially laminar shape comprise~~ include an adhesive surface for application and relatively easy removal ~~able to be easily applied and removed from the skin.~~

15. (New) A method for recovering the permeability of cell walls of muscles under the skin, comprising the steps of:

applying laminar electrodes to the skin;

generating electric current waves having a distorted sinusoidal shape and a relatively high frequency of about 4 MHz ;

connecting the generated electric current to the electrodes;

maintaining the electric current on the electrodes for a selected time interval and at a power level of about 40-50 W.